Claims

What is claimed is:

- 1. Genes for diagnosing colorectal cancer, the gene sequences searching comprising the steps of:
- (1) deriving epithelium cells from normal intestines, polypus of intestines and colorectal cancer tissue;
- (2) collecting genes with highly differential gene expression by Suppression Subtractive Hybridization (SSH), and building library;
- (3) deriving colonies with relatively high signal intensities from cancer tissue;
- (4) collecting more clinically cancer tissues by Northern Hybridization, real-time Polymerase Chain Reaction (PCR) combined with analysis of bioinformation to affirm variation between differential gene expression; and
- (5) selecting the most suitable genes from said library.
- 2. Genes for diagnosing colorectal cancer, the gene sequences are selected from the group consisting of:

- (1) A gene sequence as set forth in HS ID: Hs.107213 and Acc No.: BC027178;
- (2) A gene sequence as set forth in HS ID: Hs.123107 and Acc No.:NM_002257;
- 3 A gene sequence as set forth in HS ID: Hs.1369 and Acc No.: NM 000574;
- 4 A gene sequence as set forth in HS ID: Hs.151254 and Acc No.: NM_005046;
- 5 A gene sequence as set forth in HS ID: Hs.1526 and Acc No.: NM_001681;
- 6 A gene sequence as set forth in HS ID: Hs.184270 and Acc No.: NM 006135;
- 7 A gene sequence as set forth in HS ID: Hs.2043 and Acc No.: NM_001151;
- 8 A gene sequence as set forth in HS ID: Hs.267871 and Acc No.: NM_005177;
- 9 A gene sequence as set forth in HS ID: Hs.4935 and Acc No.: D79998;

- 10 A gene sequence as set forth in HS ID: Hs.5509 and Acc No.: NM 006495;
- 11 A gene sequence as set forth in HS ID: Hs.5662 and Acc No.: NM_006098;
- 12 A gene sequence as set forth in HS ID: Hs.75990 and Acc No.: NM_005143;
- 13 A gene sequence as set forth in HS ID: Hs.83384 and Acc No.: NM 006272;
- 14 A gene sequence as set forth in HS ID: Hs.10029and Acc No.: NM_001814;
- 15 A gene sequence as set forth in HS ID: Hs.103982 and Acc No.: NM_005409;
- 16 A gene sequence as set forth in HS ID: Hs.12314 and Acc No.: AL049397;
- 17 A gene sequence as set forth in HS ID: Hs.150557 and Acc No.: NM_001206;
- 18 A gene sequence as set forth in HS ID: Hs.169266 and Acc No.: NM 000909;

- 19 A gene sequence as set forth in HS ID: Hs.1827and Acc No.: NM_002507;
- 20 A gene sequence as set forth in HS ID: Hs.1869 and Acc No.: NM_002633;
- 21 A gene sequence as set forth in HS ID: Hs.194148 and Acc No.: NM 005433;
- 22 A gene sequence as set forth in HS ID: Hs.2352 and Acc No.: X74210;
- 23 A gene sequence as set forth in HS ID: Hs.246885 and Acc No.: NM_017958;
- 24 A gene sequence as set forth in HS ID: Hs.29665and Acc No.: NM_014944;
- 25 A gene sequence as set forth in HS ID: Hs.3235and Acc No.: NM_002272;
- 26 A gene sequence as set forth in HS ID: Hs.55209 and Acc No.: AF327354;
- 27 A gene sequence as set forth in HS ID: Hs.585 and Acc No.: NM 000384;

- 28 A gene sequence as set forth in HS ID: Hs.62187 and Acc No.: AF022913;
- 29 A gene sequence as set forth in HS ID: Hs.63290 and Acc No.: NM_012260;
- 30 A gene sequence as set forth in HS ID: Hs.699 and Acc No.: NM 000942;
- 31 A gene sequence as set forth in HS ID: Hs.74111 and Acc No.: NM 007367;
- 32 A gene sequence as set forth in HS ID: Hs.75103 and Acc No.: NM 003406;
- 33 A gene sequence as set forth in HS ID: Hs.75117 and Acc No.: NM_004515;
- 34 A gene sequence as set forth in HS ID: Hs.75236 and Acc No.: NM_021952;
- 35 A gene sequence as set forth in HS ID: Hs.75258 and Acc No.: NM_004893;
- 36 A gene sequence as set forth in HS ID: Hs.75498 and Acc No.: NM 004591;

- 37 A gene sequence as set forth in HS ID: Hs.76913 and Acc No.: NM_002790;
- 38 A gene sequence as set forth in HS ID: Hs.79889 and Acc No.: NM_012329;
- 39 A gene sequence as set forth in HS ID: Hs.82173and Acc No.: NM 005655;
- 40 A gene sequence as set forth in HS ID: Hs.84072 and Acc No.: NM 004616;
- 41 A gene sequence as set forth in HS ID: Hs.85146 and Acc No.: NM_005239;
- 42 A gene sequence as set forth in HS ID: Hs.85844and Acc No.: NM 002529;
- 43 A gene sequence as set forth in HS ID: Hs.88219 and Acc No.: NM_003454;
- 44 A gene sequence as set forth in HS ID: Hs.88219 and Acc No.: NM_006350;
- 45 A gene sequence as set forth in HS ID: Hs.169319 and Acc No.: NM_003419;

- 46 A gene sequence as set forth in HS ID: Hs.72805 and Acc No.: NM 030921;
- 47 A gene sequence as set forth in HS ID: Hs.108301 and Acc No.: NM_003297;
- 48 A gene sequence as set forth in HS ID: Hs.177926and Acc No.: NM 030941;
- 49 A gene sequence as set forth in HS ID: Hs.194746and Acc No.: NM 018896;
- Acc No.: NM 003831;
- Acc No.: NM 006070;
- Acc No.: NM_003284;
- Acc No.: NM_032466;
- 54 A gene sequence as set forth in HS ID: Hs.283664 and Acc No.: NM 032467;

- Acc No.: NM 002843;
- Acc No.: NM_003664;
- 57 A gene sequence as set forth in HS ID: Hs.183418and Acc No.: M37712;
- Acc No.: NM_031900;
- Acc No.: NM_004842;
- 60 A gene sequence as set forth in HS ID: Hs.1650 and Acc No.: NM 000111;
- 61 A gene sequence as set forth in HS ID: Hs.29981 and Acc No.: NM_000112;
- 62 A gene sequence as set forth in HS ID: Hs.2246 and Acc No.: NM_001308;
- 63 A gene sequence as set forth in HS ID: Hs.267871 and Acc No.: NM_005177;

- 64 A gene sequence as set forth in HS ID: Hs.75445 and Acc No.: NM_004684;
- 65 A gene sequence as set forth in HS ID: Hs.39957 and Acc No.: NM_016445;
- 66 A gene sequence as set forth in HS ID: Hs.65029 and Acc No.: NM_002048;
- 67 A gene sequence as set forth in HS ID: Hs.239926and Acc No.: NM_006745;
- 68 A gene sequence as set forth in HS ID: Hs.59271 and Acc No.: NM_006758;
- 69 A gene sequence as set forth in HS ID: Hs.8867 and Acc No.: NM 001554;
- 70 A gene sequence as set forth in HS ID: Hs.50123 and Acc No.: NM _003452; and
- 71 A gene sequence as set forth in HS ID: Hs.82071 and Acc No.: NM_006079.
- 3. The genes for diagnosing colorectal cancer according to claim 2, wherein said gene sequences are to a testing reagent for detecting colorectal cancer.

- 4. The genes for diagnosing colorectal cancer according to claim 2, wherein said gene sequences are to a testing biochip for detecting colorectal cancer.
- 5. The genes for diagnosing colorectal cancer according to claim 2, wherein said gene sequences are to a medicine for detecting colorectal cancer.
- 6. The genes for diagnosing colorectal cancer according to claim 2, wherein said gene sequences are to a protein testing reagent for detecting colorectal cancer.
- 7. The genes for diagnosing colorectal cancer according to claim 2, wherein said gene sequences are to a protein for curing medicine of colorectal cancer.
- 8. The genes for diagnosing colorectal cancer according to claim 2, wherein said gene sequences are to a vaccine for detecting colorectal cancer.

- 9. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.107213 and Acc No.: BC027178.
- 10. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.123107 and Acc No.: NM 002257.
- 11. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.1369 and Acc No.: NM 000574.
- 12. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.151254 and Acc No.: NM_005046.
- 13. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.1526and Acc No.: NM 001681.
- 14. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.184270 and Acc No.: NM 006135.
- 15. Genes for diagnosing colorectal cancer, a gene sequence as set

forth in HS ID: Hs.2043 and Acc No.: NM_001151.

- 16. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.267871and Acc No.: NM_005177.
- 17. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.4935 and Acc No.: D79998.
- 18. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.5509 and Acc No.: NM_006495.
- 19. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.5662and Acc No.: NM_006098.
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- 23. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.103982and Acc No.: NM 005409.
- 24. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.12314 and Acc No.: AL049397.
- 25. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID:Hs150557 and Acc No.: NM_001206.
- 26. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.169266 and Acc No.: NM_000909.
- 27. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.1827 and Acc No.:NM 002507.

- 28. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.1869and Acc No.: NM 002633.
- 29. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.194148and Acc No.: NM_005433.
- 30. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.2352and Acc No.: X74210.
- 31. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.246885and Acc No.: NM_017958.
- 32. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.29665and Acc No. NM 014944.
- 33. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.3235 and Acc No.: NM_002272.
- 34. Genes for diagnosing colorectal cancer, a gene sequence as set

forth in HS ID: Hs.55209 and Acc No.: AF327354.

- 35. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.585and Acc No.: NM_000384.
- 36. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.62187and Acc No.: AF022913.
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- 38. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.699 and Acc No.: NM 000942.
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- 42. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.75236 and Acc No.: NM_021952.
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- 51. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID Hs.88219:and Acc No.: NM_003454.
- 52. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.9914and Acc No.: NM 006350.
- 53. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.169319and Acc No.: NM_003419.

- 54. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.72805 and Acc No.: NM 030921.
- 55. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.108301and Acc No.: NM 003297.
- 56. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.177926 and Acc No.: NM 030941.
- 57. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.194746 and Acc No.: NM_018896.
- 58. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.209061 and Acc No.: NM_003831.
- 59. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.25087and Acc No.: NM 006070.
- 60. Genes for diagnosing colorectal cancer, a gene sequence

as set forth in HS ID:Hs.3017and Acc No.:NM_003284.

- 61. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID Hs.283664:and Acc No.: NM 032466.
- 62. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.283664 and Acc No.:NM_032467.
- 63. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.171992 and Acc No: NM 002843.
- 64. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.155172 and Acc No: NM 003664.
- 65. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.183418 and Acc No: M37712.
- 66. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.244473 and Acc No: NM_031900.

- 67. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.12835and Acc No: NM_004842.
- 68. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.1650and Acc No: NM 000111.
- 69. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.29981 and Acc No.: NM 000112.
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- 75. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.239926 and Acc No.: NM 006745.
- 76. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.59271 and Acc No.: NM 006758.
- 77. Genes for diagnosing colorectal cancer, a gene sequence as set forth in HS ID: Hs.8867 and Acc No.: NM_001554.
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